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Attorney Docket No. 3861 P 002
(104321.1)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application Of
Housh KHOSHBIN and James WON

Filed: August 14, 2000

For: Method and Apparatus for Displaying
Advertising Indicia on a Wireless Device

JC875 U.S. PTO
09/638825
08/14/00

PATENT APPLICATION TRANSMITTAL

BOX PATENT APPLICATION

United States Patent and Trademark Office
Commissioner for Patents
Washington, DC 20231

Dear Sir:

Transmitted herewith for filing under 35 U.S.C. § 111 and 37 C.F.R. 1.53 is the above-identified patent application.

Enclosed are the following documents:

- ☒ Express Mail Certification
☒ Patent Transmittal Cover Sheet
☒ 19-page Patent Application (including 38 Claims and Abstract)
☒ Four (4) sheets of informal drawings (FIGS. 1-4)
☒ Verified Statement Claiming Small Entity Status
☒ Executed Declaration and Power of Attorney

The filing fee has been calculated as shown below:

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Basic Fee				\$345	or		\$690
Total Claims	38 - 20 =	18	x 9 =	\$162	or	x 18 =	\$0
Indep. Claims	4 - 3 =	1	x 39 =	\$39	or	x 78 =	\$0
<input type="checkbox"/> First Presentation of Multiple Dependent Claim			x 130 =		or	x 260 =	\$0
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Respectfully submitted,

Date: August 14, 2000

By:

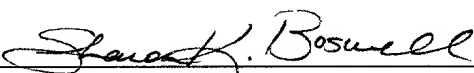

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CERTIFICATE OF MAILING

Express Mail Label No. EL590258491US

Date of Deposit: August 14, 2000

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Sharon K. Boswell (104321.1)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application Of)
Housh KHOSHBIN and James WON)
)
Filed: August 14, 2000)
)
For: Method and Apparatus for Displaying)
Advertising Indicia on a Wireless Device)

VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS
(37 C.F.R. §§ 1.9(f) and 1.27(c)) - SMALL BUSINESS CONCERN

I hereby declare that I am

_____ the owner of the small business concern identified below:

☒ an official of the small business concern empowered to act on behalf of the concern identified below:

ADBEEP.COM, L.L.C.
6770 N. Lincoln
2nd Floor
Lincolnwood, Illinois 60712

I hereby declare that the above-identified small business concern qualifies as a small business concern, as defined in 13 C.F.R. § 121.1301-05, and reproduced in 37 C.F.R. § 1.9(d), for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its domestic and foreign affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average number of persons employed on a full-time, part-time or temporary basis during each of the pay periods for the preceding completed 12 calendar months, and (2) concerns are affiliates of each other when either, directly or indirectly, (a) one concern controls or has the power to control the other, or (b) a third party or parties controls or has the power to control both, or (c) an identity of interest between or among parties exists such that affiliation may be found.

I hereby declare that rights under contract or law have been conveyed to, and remain with, the small business concern identified above, with regard to the invention entitled METHOD AND APPARATUS FOR DISPLAYING ADVERTISING INDICIA ON A WIRELESS DEVICE by inventor(s) Housh Khoshibin and James Won as described in the specification filed herewith.

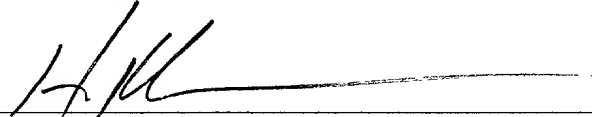
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I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small business entity is no longer appropriate. (37 C.F.R. § 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Signature: 
Name: Housh Khoshbin
Title: President
Address: ADBEEP.COM, L.L.C.
6770 N. Lincoln, 2nd Floor
Lincolnwood, Illinois 60712
Date: August 14, 2000

**EXPRESS MAIL CERTIFICATION
U.S. Patent Application**



Applicant(s): **Housh KHOSHBIN and James WON**

Mailing Date: **August 14, 2000**

Entitled: **METHOD AND APPARATUS FOR DISPLAYING
ADVERTISING INDICIA ON A WIRELESS DEVICE**

Attorney Docket No.: **3861 P 002**

Enclosures:

- Return Receipt Postcard;
- Check in the amount of \$546;
- Express Mail Certification;
- Patent Transmittal Cover Sheet;
- 19-Page Patent Application, including 38 claims and Abstract;
- Verified Statement Claiming Small Entity Status; and
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Sharon K. Boswell (104380 1)

PLEASE ADDRESS ALL FUTURE COMMUNICATIONS TO:

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**METHOD AND APPARATUS FOR DISPLAYING
ADVERTISING INDICIA ON A WIRELESS DEVICE**

DESCRIPTION

Technical Field

The present invention generally relates to wireless devices for paging its user. More specifically, the present invention relates to a method and apparatus for displaying advertisements on a wireless device, such as a pager.

Background of the Invention

Wireless devices, such as pagers, have become common. These wireless devices have allowed individuals to communicate more efficiently in business and personal settings. Typical pager wireless devices include a display for displaying a source of a page, such as a phone number to return the call. Typical pagers also include a receiver which "listens" for its particular signal to be broadcast from a base station. Once the pager's individual signal is broadcast, the receiver in the pager will recognize its signal has been sent and will indicate an alarm to the user of the pager. The pager will then display the source of the page on the display.

One particular type of pager is disclosed in U.S. Patent No. 5,999,088 issued to Sibbitt, entitled "Information Display Pager." The Sibbitt pager provides active entertainment for people waiting for service. Such people are provided with an electronic pager assembly for notifying when the service is available. The Sibbitt pager includes an electronically controllable pager assembly having a controllable screen display and programmed with information likely to be desirable to a person holding the pager. The Sibbitt patent further discloses examples of the type of information displayed on the active pager screen display; such information can include advertisements. The Sibbitt patent further discloses an internal memory of the pager can be programmed to display various data such as restaurant specials or local ads. However, the user of the pager must choose to select to view the information, such as the ads. The information is not automatically placed on the screen. Moreover, the user can choose to completely ignore

the information within the pager and to wait until the pager "vibrates" as the notification that the user is ready to be seated in the restaurant.

Another particular type of pager is disclosed in U.S. Patent No. 6,008,739, issued to Hymel, entitled Increasing "The Size Of Memory Available For Storing Messages In Response To The User Reading Advertisements In A Selective Call Receiver." The Hymel patent is directed to a method involving a "Selective Call Receiver" (SCR). The Hymel patent discloses a method of encouraging a user of an SCR to read advertisements stored in the SCR. The disclosed SCR or pager has circuitry including an antenna, an RF demodulator and a digital decoder for receiving and decoding incoming messages, including advertisements. The messages including the advertisements are not preprogrammed or prestored in the SCR or pager. The incoming messages including the advertisements are then stored in memory, for viewing when the user wishes to do so. The SCR has a message memory and can also have a reserve memory. Timers are provided in the SCR to indicate features relating to allocation of memory and notifying the user about the allocation (or lack thereof) of memory. The SCR can detect when the user views an advertisement. In addition, when more advertisements are viewed in a shorter period of time, it is more likely that more memory will be allocated for messages (pages), and it will be less likely that messages (pages) will be lost due to the lack of increased memory allocation from the lack of viewing advertisements. Thus, there is only an encouragement to read advertising, with messages (pages) potentially being lost, and with the advertisements being sent from a broadcast of the message.

Another further particular type of pager is disclosed in U.S. Patent No. 6,031,467, issued to Hymel et al., entitled "Method In a Selective Call Radio For Ensuring Reception Of Advertisement Messages." The Hymel et al. patent discloses a "Selective Call Radios" (SCR) that receives personal messages and corresponding advertising messages. The SCR comprises an antenna for intercepting RF signals from a radio communication system. The antenna is coupled to a receiver employing conventional demodulation techniques for receiving the communication signals transmitted by the radio communication system. Radio signals received by the receiver produce

demodulated information, which is coupled to a processor for processing received messages. A conventional power switch, coupled to the processor, is used to control the supply of power to the receiver from a conventional battery source, thereby providing a battery saving function. The Hymel et al. patent further discloses that to perform the necessary functions of the SCR, the processor includes a microprocessor, first and second
5 timers, and a memory that includes, for example, a random access memory (RAM), a read-only memory (ROM), and an electrically erasable programmable read-only memory (EEPROM). The processor is programmed by way of the ROM to process incoming messages transmitted by the radio communication system. The processor decodes an address in the demodulated data of the received message, compares the decoded address
10 with one or more addresses assigned and stored in the EEPROM of the SCR, and when a match is detected, proceeds to process the remaining portion of the message if predetermined expectation criteria is satisfied. Assuming the processor decides to process the message, it stores the message in the RAM, and a call alerting signal is generated to alert a user that a message has been received. The call alerting signal is
15 directed to a conventional audible or tactile alerting device for generating an audible or tactile call alerting signal. The message can be accessed by the user through user controls, which provide functions such as lock, unlock, delete, read, etc. More specifically, by the use of appropriate functions provided by the user controls, the message is recovered from
20 the RAM and conveyed to the user by way of a presentation circuit, which includes a display (e.g., a conventional liquid crystal display—LCD) for alphanumeric messaging and an audio circuit for audio messages. The SCR receives a personal message from a base station of the radio communication system. A personal message comprises caller initiated messages and/or an information services message such as, for example, news,
25 weather and/or sports. For an end user of the SCR receiving free subscription based on sponsorship from an advertiser, the personal message is associated with a corresponding advertisement message. The personal message and its corresponding advertisement message share a common identifier. The common identifier can be, for instance, a shared address. The shared address is stored in the EEPROM, which the processor utilizes to
30 identify that an incoming personal message and/or advertisement message is intended for

the SCR. Once the SCR has received the personal message and the end user of the SCR has requested presentation of the personal message, the processor determines whether a corresponding advertisement message is stored in the memory received by transmission with the message. If the corresponding advertisement message is stored in memory, then the processor presents the corresponding advertisement message followed by the personal message. In the event the processor fails to find the corresponding advertisement message, the processor causes the presentation circuit to present the personal message to the user of the SCR by way of either the display. Then the processor warns the user that the SCR must receive the corresponding advertisement message within a first predetermined time. The warning instructs the user how to place the SCR in an optimal mode for receiving the corresponding advertisement message. For example, the warning message may instruct the user not to turn off the SCR during the nighttime or for at least a twenty-four hour period. Once the user has been warned, the processor activates the first timer invoking an alert signal within the first predetermined time, unless deactivated in the manner discussed below. Additionally, the predetermined time is preprogrammed into the SCR by the service provider of the radio communication system prior to delivering the SCR to an end user. For each personal message received, the processor checks for the reception and storage of the corresponding advertisement message. In a best case scenario, the corresponding advertisement message is received prior to the expiration of the first timer. When this happens, the processor deactivates the first timer. If the first timer expires prior to the reception of the corresponding advertisement message, thereby generating an alert signal to the processor, then the processor warns the user that the SCR has been disabled from receiving personal messages. The warning instructs the user how to go about re-enabling the SCR to receive personal messages—such as, for example, maintaining the SCR powered on for a twenty-four hour period. The processor then disables reception of personal messages until the corresponding advertisement message is received. The processor maintains this mode of operation until the corresponding advertisement message is received. Upon receiving the corresponding advertisement message, the processor determines if there is a history of misuse, i.e., intentional avoidance of advertisement messages, by the end user of the

SCR. If there is a history of intentional misuse, then the processor reduces the first predetermined time by a second predetermined time, which has a duration less than the first predetermined time. The purpose of this reduction is to effectively reduce the grace period for receiving the corresponding advertisement message. By reducing the grace period, a user who frequently misuses the SCR will be given less time for receiving personal messages free of charge. In extreme cases, the processor immediately disables the SCR. Thus, the advertisement messages can be lost when the pager is not on. In addition, a complicated structure is needed to ensure and encourage viewing of advertisement messages.

The present invention is provided to solve these and other problems.

Summary of the Invention

The present invention is a wireless device, such as a pager, that has an identity, such as a frequency. The wireless device is provided for notifying a user of a source of a page, such as a telephone number, directed specifically to the identity of the wireless device. The wireless device includes a housing and a display attached to the housing. The wireless device further includes a driver connected to the display for causing indicia to appear on the display. The wireless device further includes a controller, such as a microprocessor connected to the driver for sending to the display a signal comprising indicia to appear on the display. The wireless device also has a memory preprogrammed with advertising indicia and a receiver connected to the controller for receiving a page signal directed specifically at the identity of the wireless device and for communicating the page signal to the controller. When the controller receives the page signal received by the receiver, the controller will then send to the driver a signal comprising the advertising indicia preprogrammed in the memory for causing the display to display the advertising indicia. The controller will then send to the driver a signal comprising an identification of the source of the page for display on the display.

The display can be a liquid crystal display (LCD) display and the memory can be an electrically eraseable programmable read only memory (EEPROM). The advertising indicia can be a logo of a company, a company name, or other advertising indicia.

When the controller receives the page signal received by the receiver the controller can then send to the LCD driver, immediately, a signal comprising the advertising indicia in the memory for causing the LCD to display the advertising indicia. The controller can then send to the LCD driver, within five seconds or less from the sending of the signal comprising the advertising indicia, a signal comprising an identification of the source of the page.

In an additional embodiment of the present invention, the present invention is a memory device for a wireless device with its structure and functions generally as described. The memory device has a storage location preprogrammed with advertising indicia. When the controller receives the page signal received by the receiver the controller will then send to the driver a signal comprising the advertising indicia preprogrammed in the memory for causing the display to display the advertising indicia, and the controller will then send to the driver a signal comprising an identification of the source of the page for display on the display.

In a further embodiment of the present invention, the present invention is a method of providing advertising indicia to a user of a wireless device on the display of the wireless device. The wireless device notifies the user of the source of the page directed specifically to an identity of the wireless device. The method comprising the steps of receiving an advertising request for placement of advertising indicia within the wireless device; storing in a memory located within the wireless device the advertising indicia, before the user obtains permanent possession of the wireless device; providing permanent possession of the wireless device to the user; and, providing paging service to the user. The user receives the page from the source. The advertising indicia stored in the memory of the wireless device then appears on the display of the wireless device. The source of the page then appears on the display of the wireless device.

Other features and advantages of the present invention will be apparent from the Figures, Detailed Description, and Claims below.

Brief Description of the Drawings

Figure 1 is one embodiment of the wireless device of the present invention.

Figure 2 is a block diagram of one embodiment of the process of implementing advertising indicia into the wireless device of the present invention.

Figure 3 is a memory allocation of one embodiment wireless device of the present invention.

Figure 4 is a flow diagram of one embodiment of what appears on the display of the wireless device of the present invention.

Detailed Description

While this invention is susceptible of embodiment in many different forms, there is shown in the drawings and will herein be described in detail preferred embodiments of the invention with the understanding that the present disclosure is to be considered as an exemplification of the principles of the invention and is not intended to limit the broad aspect of the invention to the embodiments illustrated.

With reference to Figure 1, one form of a wireless device, a pager 2, is shown. The pager 2 has an identity in the form of a frequency or small frequency range with which signals are sent to the pager 2, and which the pager 2 will recognize and receive. The pager 2 is used for notifying a user of a source of a page directed specifically to the identity of the pager 2. The source of the page can be a person or a number to reach the person sending the page. The pager 2 has a housing 4 and a liquid crystal display (LCD) 6 attached to the housing 4. With further reference to Figure 2, a liquid crystal display driver 8 is electrically connected to the LCD for causing indicia to appear on the LCD. A controller or microprocessor 10 is connected to the LCD driver 8 for sending to the LCD 6 a signal that has indicia therein. In one form of the present invention, the controller 10 is an MCU Hitachi 3827 microprocessor. The controller 10 and the LCD driver 8 work together, as one of ordinary skill in the art would understand, to cause the indicia to appear on the LCD 6. The pager 2 also has an electrically erasable programmable read only memory (EEPROM) 12. The EEPROM 12 is preprogrammed with advertising indicia, as will be further described below. The preprogrammed advertising indicia therein can be changed, when a EEPROM or other such changeable memory is used. The pager 2 also has a power source for powering the controller 10, the

LCD 6, and other components needing a power source. A receiver is electrically connected to the controller, as one of ordinary skill in the art would understand, for receiving a page signal directed specifically at the identity of the pager 2. The receiver will communicate the page signal to the controller 10.

5 When the controller 10 receives the page signal sent to the controller 10 by the receiver, after the receiver receives the signal, the controller 10 will then send to the LCD driver 8 a signal comprising the advertising indicia in the EEPROM 12 for causing the LCD 6 to display the advertising indicia. The controller will then send to the LCD driver a signal comprising an identification of the source of the page, such as a number or person's name, or both. The advertising indicia can be the name of a company, a logo, or some other form of advertising indicia.

10 In one form of the present invention, when the controller 10 receives the page signal received by the receiver, the controller 10 immediately send, to the LCD driver 8 a signal comprising the advertising indicia in the memory 12. This will cause the LCD 6 to display the advertising indicia. The controller 10 next sends to the LCD driver 8, within five seconds or less from the sending of the signal comprising the advertising indicia, a signal comprising an identification of the source of the page. In this way the user of the pager 2 does not have to wait an unnecessary amount of time, with the understanding that the user knows it has received the pager and the paging service for little or no charge.

15 In the embodiment in Figures 1-4, the memory device has several storage locations 14, at least one of which is preprogrammed with advertising indicia. Figure depicts the company name "YAHOO.COM" (see Figure 4) preprogrammed in the storage location 14. When the controller 10 receives the page signal received by the receiver, the controller 10 sends to the driver 8 a signal comprising the advertising indicia preprogrammed in the memory 12 for causing the display 6 to display the advertising indicia. Thereafter, the controller 10 will send to the driver 8 a signal comprising the identification of the source of the page for display on the display 6. As will be described further below, the advertising indicia is preprogrammed, at either the factory or assembly

facility where the pager 2 is manufactured, or where the pager 2 is distributed, such as a wholesaler or retailer.

In a further embodiment, the present invention includes a method of providing advertising indicia to the user of the wireless device 2. The advertising indicia 16 is provided on the display 6 of the wireless device 2. The sellers of the pager devices in order to make the price more reasonable for the user, if at any price at all, contract directly with a company or person wishing to advertise a product, name, service, or other thing representable through indicia. The seller can, thus, receive a request for placement of advertising indicia within the wireless device. The seller or other entity will then store in the memory 12 of the wireless device 2 the advertising indicia. This is done before the user obtains permanent possession of the wireless device, although it can be done after the user has identified in a store or otherwise, which pager 2 the user is interested in using and receiving on a permanent basis. Once the seller has programmed the advertising indicia 16 within the pager 2, the seller provides the wireless device to the user on a permanent basis. This can be done on a no charge basis. The paging service will then be provided to the user such that when the user receives the page from the source, the advertising indicia 16 stored in the memory 12 of the wireless device 2 will appear on the display 6, as mentioned above, before the page will appear on the display 6 of the wireless device 2.

As mentioned above, the seller of the pager 2 can program the advertising indicia 14 into the pager 2. This can be accomplished by connecting a personal 18 computer to the wireless device 2 through a cable 20. The cable 20 can connect through a serial port in the personal computer 18 at one end of the cable 20 and to a EEPROM programming board, having a EEPROM 12 thereon, at the other end of the cable 20. Software is then run on the personal computer which will allow for communication between the personal computer and the EEPROM 12 that is then placed in the wireless device 2. Alternatively, the other end of the cable 20 can be directly connected to the wireless device 2. The seller then enters the advertising indicia 16 into the software running on the personal computer, and the advertising indicia 16 is then sent to the wireless device 12 from the personal computer 18 for storage in the memory 12, either directly or indirectly through

the use of the EEPROM programming board. The cable 20 and personal computer 18 are then disconnected from the wireless device, either directly or indirectly from the EEPROM programming board.

The entity placing the advertising request can pay for some or all of the wireless device or associated paging service, if needed. Several different advertising indicia can be preprogrammed into memory before the user receives permanent possession thereof. In a further embodiment of the present invention, when a first page is received, a first advertising indicia, such as "YAHOO.COM" stored in memory 12 can be displayed on the display 6 of the wireless device 2. When a second page is received, a second advertising indicia, such as "COKE" stored in memory 12 can be displayed on the display 6 of the wireless device 2. When more than one advertising indicia are preprogrammed into memory 12, the advertising indicia can alternate being displayed on the display 6. In an even further embodiment, the controller 10 of the wireless device 2 can be programmed to cause the first advertising indicia to appear on the display a particular percentage of the time of the overall number of pages for a given time period. For example if YAHOO and COKE placed advertising requests, and YAHOO paid more than COKE, then the wireless device 2 could be programmed to have a cycle with four slots, and YAHOO would take up three of the four slots, with COKE taking up the fourth slot. Thus, YAHOO would appear three times in a row, for the first three pages, and COKE would come up on the fourth page. This cycle can be repeated. Other numbers of slots in one cycle could also be used. Other programming methods come to mind by one of ordinary skill in the art, so long as the proper percentage of appearances is achieved.

In an even further embodiment of the present invention, the seller can also program the length of time that the advertising indicia 16 will appear on the display 6 before the source is displayed on the display 6. It should be understood that the above described wireless device has an audible and or vibrating alarm for notifying a user when a page is taking place, or has taken place. In either case, the programmable time for the advertising indicia to be displayed in the display 6 can begin after the audible alarm is complete. Alternatively, the time that the advertising indicia is displayed on the display

can begin about the same time as an alarm begins. These programmable features allow for flexibility in meeting the requests and demands of companies and individuals wishing to place advertising within a wireless device.

5 In a further embodiment of the present invention, the user can wait to view the source of the page until a later time after the alarm indicates that the page has been received. The user can then press a button to select to view the source of the page. When the user selects to do this, the advertising indicia will be displayed on the display, as described above. In a further embodiment, the user can choose to keep the source of the page in memory by not deleting it after the first viewing of the advertising indicia and the associated source of the page. The user can choose to view the source of the page again at a later time with or without the advertising indicia appearing before the source of the page is displayed. In relation to all of the above-described embodiments of the present invention, the advertising indicia can include slogans or directed messages such as “DON’T SMOKE” or “SAY NO 2 DRUGS.”

10 15 While the specific embodiments have been illustrated and described, numerous modifications come to mind without significantly departing from the spirit of the invention and the scope of protection is only limited by the scope of the accompanying Claims.

CLAIMS

We claim:

1. A wireless device having an identity, for notifying a user of a source of a page directed specifically to the identity of the wireless device, comprising:
 - a housing;
 - a liquid crystal display (LCD) attached to the housing;
 - a liquid crystal display driver connected to the LCD for causing indicia to appear on the LCD;
 - a controller connected to the LCD driver for sending to the LCD a signal comprising indicia to appear on the LCD;
 - a programmable read only memory (PROM), preprogrammed with advertising indicia; and
 - a receiver connected to the controller for receiving a page signal directed specifically at the identity of the wireless device and for communicating the page signal to the controller, wherein the controller receives the page signal received by the receiver wherein the controller sends to the LCD driver a signal comprising the advertising indicia in the PROM for causing the LCD to display the advertising indicia, and wherein the controller will send to the LCD driver a signal comprising an identification of the source of the page.
2. The wireless device of claim 1 wherein the advertising indicia is a directed message.
3. The wireless device of claim 1 wherein the advertising indicia is logo.
4. The wireless device of claim 1 wherein the identity of the wireless device is a frequency.

5. The wireless device of claim 1 wherein the identity of the wireless device is a frequency range.
6. The wireless device of claim 1 wherein the source of the page is a number to call.
7. The wireless device of claim 1 wherein the source of the page comprises a name of a person and a text message.
8. The wireless device of claim 1 wherein the receiver is continuously attempting to detect the page signal directed specifically at the identity of the wireless device.
9. The wireless device of claim 1 wherein the wireless device is a pager.
10. The wireless device of claim 1 wherein the wireless device is a personal digital assistant.
11. The wireless device of claim 1 wherein the wireless device is a cell phone.
12. The wireless device of claim 1 further comprising a power source for powering the controller and the LCD.
13. The wireless device of claim 1 wherein the PROM is an electrically erasable PROM (EEPROM) and wherein the preprogrammed advertising indicia therein can be changed.
14. The wireless device of claim 1 wherein the controller receives the page signal received by the receiver wherein the controller sends to the LCD driver a signal comprising the advertising indicia in the PROM for causing the LCD to display the advertising indicia, and wherein the controller sends to the LCD driver, within

five seconds or less from the sending of the signal comprising the advertising indicia, a signal comprising an identification of the source of the page.

15. The wireless device of claim 1 wherein the controller is an MCU Hitachi 3827.

16. A wireless device having an identity for notifying a user of a source of a page directed specifically to the identity of the wireless device, comprising:

a housing;

a display attached to the housing;

a driver connected to the display, for causing indicia to appear on the display;

a controller connected to the driver for sending to the display a signal comprising indicia to appear on the display;

a memory, preprogrammed with advertising indicia; and,

a receiver connected to the controller for receiving a page signal directed specifically at the identity of the wireless device and for communicating the page signal to the controller, wherein the controller receives the page signal received by the receiver wherein the controller sends to the driver a signal comprising the advertising indicia preprogrammed in the memory for causing the display to display the advertising indicia, and wherein the controller sends to the driver a signal comprising an identification of the source of the page for display on the display.

17. The wireless device of claim 16, wherein controller waits to send the signal comprising the advertising indicia to the driver until the user selects to view the source of the page.

18. A memory device for a wireless device, the wireless device having an identity, the wireless device for notifying a user of a source of a page directed specifically to the identity of the wireless device, and the wireless device comprising a housing; a display attached to the housing; a driver connected to the display, for causing indicia to appear on the display; a controller connected to the driver for

sending to the display a signal comprising indicia to appear on the display; and a receiver connected to the controller, the receiver receiving a page signal directed specifically at the identity of the wireless device and for communicating the page signal to the controller, the memory device comprising:

a storage location preprogrammed with advertising indicia, wherein the controller receives the page signal received by the receiver wherein the controller sends to the driver a signal comprising the advertising indicia preprogrammed in the memory for causing the display to display the advertising indicia, and wherein the controller sends to the driver a signal comprising an identification of the source of the page for display on the display.

19. A method of providing advertising indicia to a user of a wireless device on the display of the wireless device, the wireless device for notifying the user of a source of a page directed specifically to an identity of the wireless device, the method comprising the steps of:

receiving an advertising request for placement of advertising indicia within the wireless device;

storing in a memory located within the wireless device the advertising indicia, before the user obtains permanent possession of the wireless device;

providing permanent possession of the wireless device to the user; and,

providing paging service to the user, wherein the user receives the page from the source, wherein the advertising indicia stored in the memory of the wireless device will appear on the display of the wireless device, and the source of the page will appear on the display of the wireless device.

20. The method of claim 19 wherein the source of the page will appear on the display after the advertising indicia will appear on the display.

21. The method of claim 19 wherein the step of storing takes place at a manufacturing facility of the wireless device.

22. The method of claim 19 wherein the step of storing takes place a distributor of the wireless device.
23. The method of claim 19 wherein the step of storing comprises the steps of:
connecting a personal computer to the wireless device;
running software on the personal computer which will allow for communication between the personal computer and the wireless device;
entering the advertising indicia into the personal computer;
sending the advertising indicia to the wireless device from the personal computer for storage in the memory; and,
disconnecting the wireless device from the personal computer.
24. The method of claim 19 wherein the wireless device is provided to the user free of charge.
25. The method of claim 24 wherein an entity that places the advertising request pays for at least a portion of the wireless device.
26. The method of claim 19 wherein the paging service is provided to user free of charge.
27. The method of claim 26 wherein an entity that places the advertising request pays for at least a portion of the paging service.
28. The method of claim 19 wherein a plurality of different advertising indicia are stored in memory, wherein when a first page is received, a first advertising indicia of the plurality of advertising indicia stored in memory is displayed on the display of the wireless device, and wherein a second page is received, a second advertising indicia of the plurality of advertising indicia stored in memory is displayed on the display of the wireless device.

29. The method of claim 28 wherein the first and second advertising indicia alternate being displayed on the display.
30. The method of claim 28 wherein the wireless device can be programmed to cause the first advertising indicia to appear on the display a particular percentage of the time of the overall number of pages for a given time period.
31. The method of claim 28 wherein the wireless device can be programmed to cause the first advertising indicia to appear on the display more than the second advertising indicia.
32. The method of claim 31 wherein an entity placing a first advertising request for the first advertising indicia to appear on the display pays more than an entity placing a second advertising request for the second advertising indicia to appear on the display.
33. The method of claim 28 wherein the wireless device is programmed at a distributor of the wireless device with the use of a personal computer and software.
34. The method of claim 19 further comprising the step of:
programming the wireless device to display the advertising indicia for a first time length before the source of the page is displayed on the display.
35. The method of claim 34 wherein the first length of time begins after an alarm is complete.
36. The method of claim 35 wherein the alarm is a vibration of a vibrator within the wireless device.

ABSTRACT

The present invention is a wireless device, such as a pager that has an identity, such as a frequency. The wireless device is provided for notifying a user of a source of a page, such as a telephone number, directed specifically to the identity of the wireless device. The wireless device includes a housing, a display attached to the housing, a driver connected to the display for causing indicia to appear on the display, a controller, such as a microprocessor connected to the driver for sending to the display a signal comprising indicia to appear on the display, a memory that is preprogrammed with advertising indicia, and a receiver connected to the controller for receiving a page signal directed specifically at the identity of the wireless device and for communicating the page signal to the controller. When the controller receives the page signal received by the receiver, the controller sends to the driver a signal comprising the advertising indicia preprogrammed in the memory for causing the display to display the advertising indicia. The controller will then send to the driver a signal comprising an identification of the source of the page for display on the display. A method is also provided in relation to the use of the wireless device.

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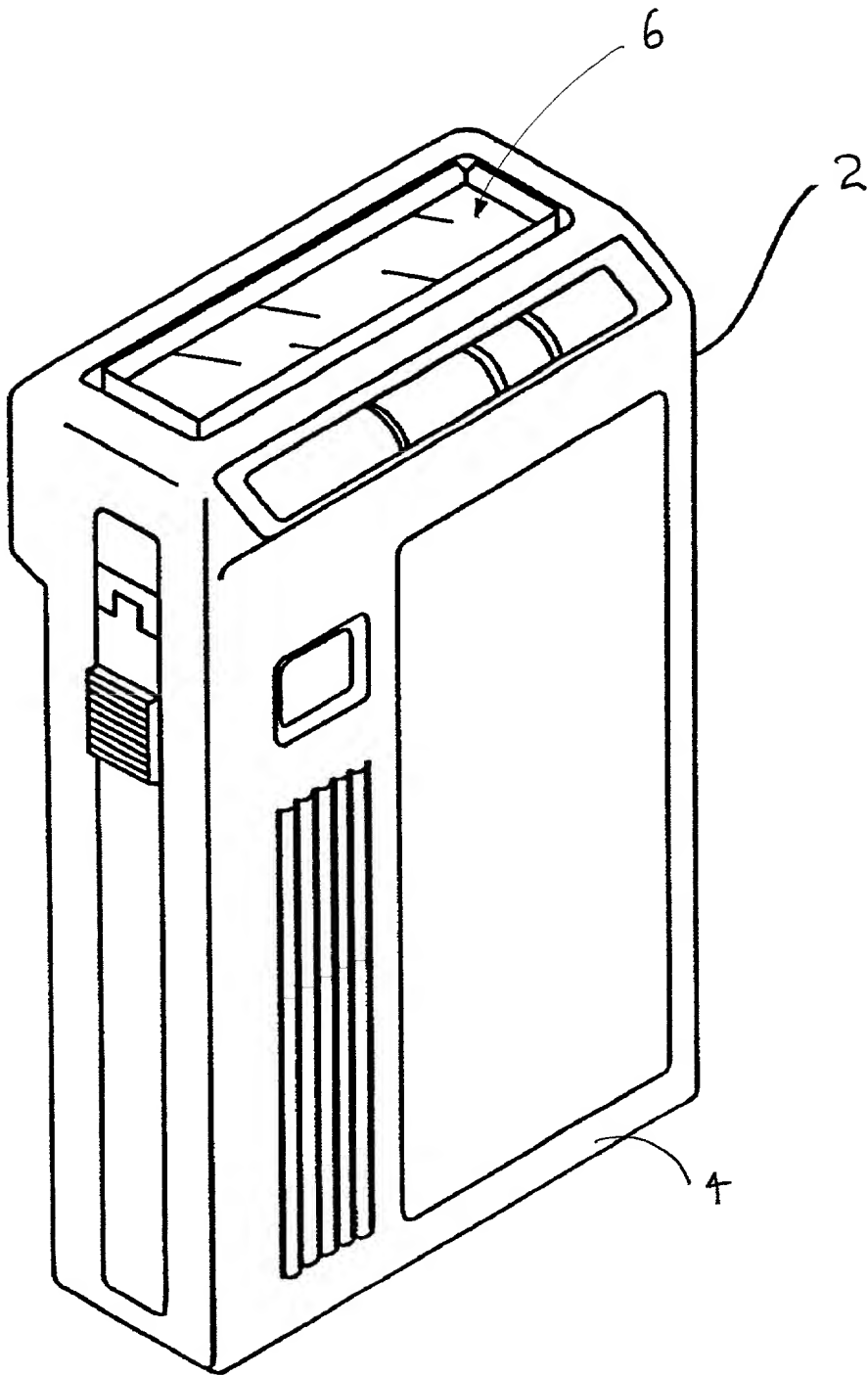


FIGURE 1

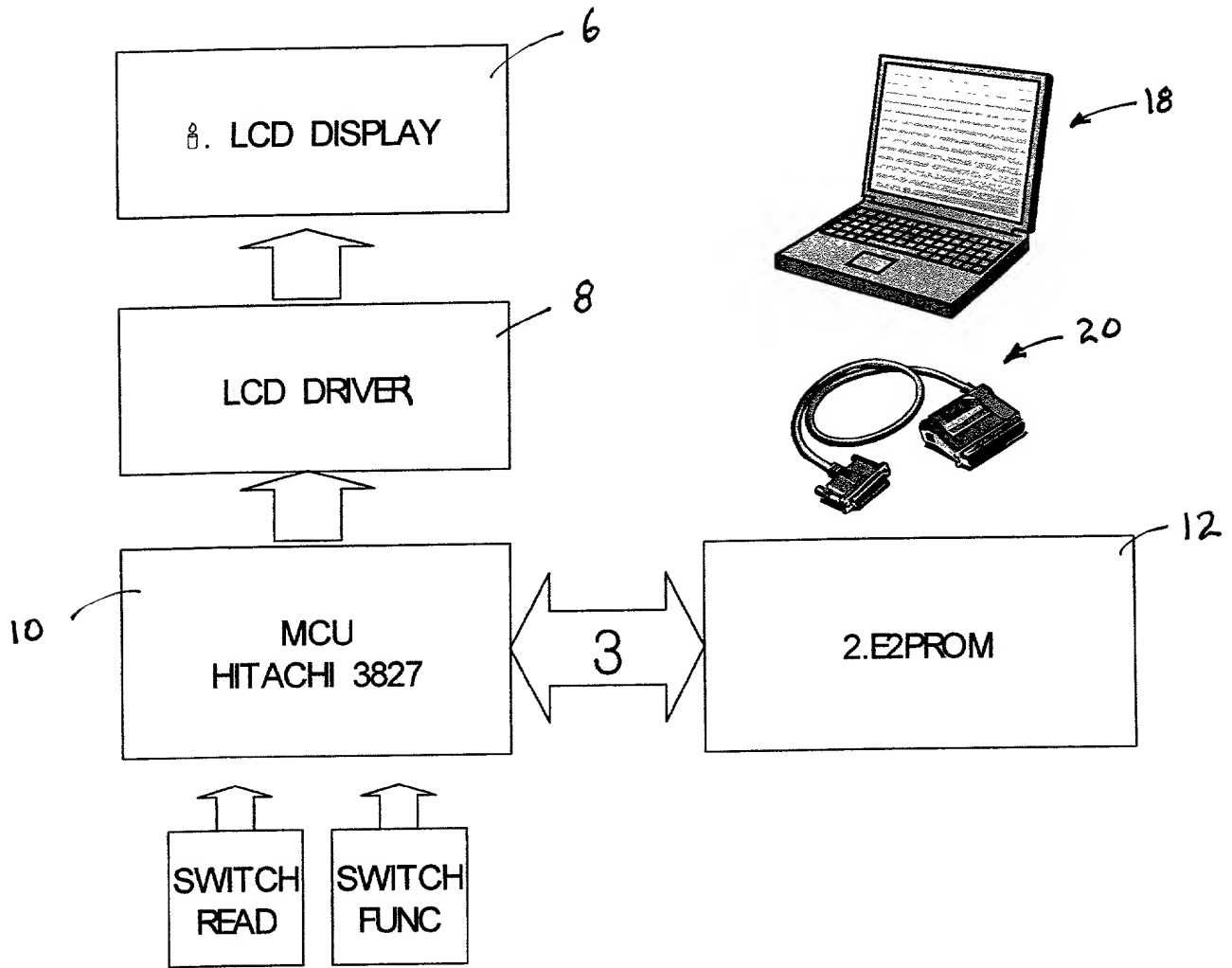
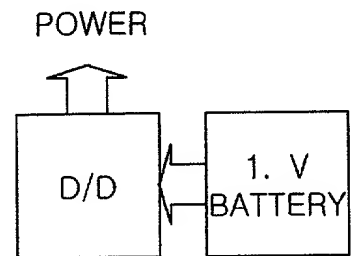


FIGURE 2



POWER ON

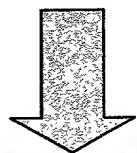
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CALL

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EXCITING



02-2060-2217

1.CALL

2.READ KEY

3.DISPLAY MESSAGE

FIGURE 4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION AND POWER OF ATTORNEY

As below named inventors, we hereby declare that:

Our residences, post office addresses and citizenships are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled "**METHOD AND APPARATUS FOR DISPLAYING ADVERTISING INDICIA ON A WIRELESS DEVICE.**"

We hereby state that we have reviewed and understand the contents of the above-identified Specification, including the Claims, as amended by any Amendment referred to above.

We acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

We hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the Application on which priority is claimed:

Prior Foreign Application(s) NONE

Priority
Claimed

Number

Country

Day/Month/Year
Filed

Yes No

We hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below: NONE

Application Number

Filing Date

We hereby claim the benefit under 35 U.S.C. § 120 of any United States Application(s), or § 365(c) of any PCT International Application designating the United States, listed below and, insofar as the subject matter of each of the Claims of this Application is not disclosed in the prior United States or PCT International Application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior Application and the national or PCT international filing date of this Application:

Application Number

Filing Date

Status

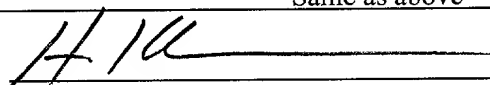
We hereby appoint the following attorney(s) and/or agent(s) to prosecute this Application and transact all business in the Patent and Trademark Office connected therewith.

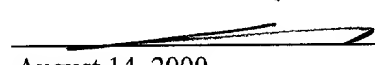
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We hereby declare all statements made herein of our own knowledge are true and all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the Application or any patent issued thereon.

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